# PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220				
ADP04705/PCT	ACTION as well a	as well as, where applicable, item 5 below.				
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)				
PCT/KR2004/003387	22 DECEMBER 2004 (22.12.2004)	22 DECEMBER 2003 (22.12,2003)				
Applicant  ADAPTIVE PLASMA TECHNO	LOGY CORPORATION et al					
This International search report has been prep to Article 18. A copy is being transmitted to t	ared by this International Searching Authority the International Bureau.	and is transmitted to the applicant according				
This international search report consists of a t						
It is also accompanied by a cop	y of each prior art document cited in this repor	t.				
Basis of the report     a. With regard to the language, the integrate in which it was filed, unless	ernational search was carried out on the basis so therwise indicated under this item.	of the international application in the				
The international search this Authority (Rule 23.	was carried out on the basis of a translation of $1(b)$ .	the international application furnished to				
b. With regard to any nucleotide	and/or amino acid sequence disclosed in the	international application, see Box No. I.				
2. Certain claims were found an	searchable (See Box No. II)					
3. Unity of invention is lacking (	3. Unity of invention is lacking (See Box No. III)					
4. With regard to the title,						
the text is approved as submitte the text has been established by	d by the applicant.  this Authority to read as follows:	2005. 5. 0 6 長時間 아주				
	ed by the applicant. ecording to Rule 38.2(b), by this Authority as e date of mailing of this international search re					
6. With regard to the drawings,						
1 — —	cant. ed to suggest a figure. characterizes the invention.					
b. none of the figure is to be publi	ishich with the adstract.					

Form PCT/ISA/210 (first sheet) (January 2004)

International application No. PCT/KR2004/003387

#### A. CLASSIFICATION OF SUBJECT MATTER

### IPC7 H01L 21/3065

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 B23K 1/19, C23C 16/00, H01L 21/02, 21/3065, 21/68, H05H 1/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched KOREAN PATENTS AND APPLICATIONS FOR INVENTION SINCE 1975

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used) KIPONET

#### C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2002-110774 A(APPLIED MATERIALS, INC) 02 MAY, 2002. See the whole document	1-8
A	IP 09-167794 A(SONY CORP) 24 JUNE, 1997 See the whole document	1-8
Α	KR 2000-26856 A(SAMSUNG ELECTRONICS CO., LTD.) 15 MAY,2000 See the abstract	1-8
A	KR 0195120 Y1(HYNIX SEMICONDUCTOR INC.) 01 SEPTEMBER, 2002 See the abstract	1-8
EX	KR 2005-5344 A(ADAPTIVE PLASMA TECHNOLOGY CORP) 13 JANUARY, 2005 See the whole document	1-4

	Further documents a	e listed in the	e continuation	of Box C.
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See patent family annex.

- Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other
- "P" document published prior to the international filing date but later than the priority date claimed
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

27 APRIL 2005 (27.04.2005)

Date of mailing of the international search report

28 APRIL 2005 (28.04.2005)

Name and mailing address of the ISA/KR



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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2004/003387

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2002-110774 A	12-04-2002	US 2002/50246 A1	02-05-2002
JP 09-167794 A	24-06-1997	NONE	
KR 2000-26856 A	15-05-2000	NONE	
KR 0195120 Y1	01-09-2000	NONE :	
KR 2005-5344 A	12-01-2005	NOVE	

Form PCT/ISA/210 (patent family annex) (January 2004)